

Nuclear Division News



A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

Vol. 7 No. 22/October 28, 1976

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PRESENTS UNITED FUND CONTRIBUTION—Roger F. Hibbs, President of the Nuclear Division, Union Carbide Corporation, presents a check for \$13,350 to Berwyn M. Robinson, Campaign Chairman for the United Way of Anderson County, as the Corporation's contribution to the annual drive. In addition, the Nuclear Division made a separate contribution of \$1,650 to the National Red Cross which will be credited to the Oak Ridge Chapter. From left are: Robinson, Hibbs, and W. Ronald Ragland, United Way Chairman for the Nuclear Division facilities in Oak Ridge. A final report on the four-plant drive will follow in a future issue of Nuclear Division News.

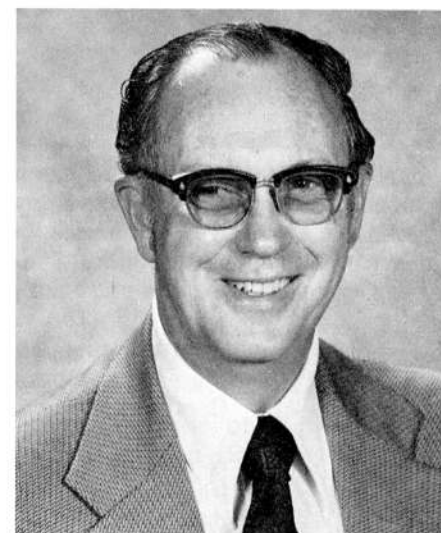
UCC names Blake manager for corporate EEO efforts

Charles A. Blake, Equal Employment Opportunities Coordinator for the Nuclear Division, Union Carbide Corporation, for the last eight years, has been named Manager, Equal Employment Opportunity Programs for Union Carbide Corporation.

The announcement was made by C. R. Keeney, Corporate Director of Industrial Relations. Blake will be located at the Corporation's headquarters in New York City.

A native of Stamford, Conn., he received his bachelor's degree from Yale University in 1947 and, three years later, his Ph.D. in chemistry, also from Yale.

He joined the staff of the Oak Ridge National Laboratory in 1950 as a research chemist, and served later as a group leader in the Chemical Technology Division at the Laboratory. He was named EEO Coordinator for the Nuclear Division in September, 1968. In addition to his work in this area, Blake has served as chairman of the Nuclear Division's Advisory Committee for Professional Staffing.



Charles A. Blake

His research interests have been in the field of separations technology and he is the author or co-author of more than 20 professional publications.

Blake has served as a member of the Board of Directors of the Knoxville Area Urban League, Anderson County Community Action Commission and the Anderson County United Way. He was one of the organizers of the Oak Ridge Arts Council and is a former president of the Oak Ridge Playhouse.

He is married to the former Mary Fournad, New Haven, Conn. They have three children: Charles III; Jody; and Wendy.

inside ...

Nuclear Division artisans busily prepare for the giant show and sale for the Foothills Craft Guild. There will be all sorts of crafts . . . pottery, ceramics, hand-weaving, basketry, Christmas decorations, leatherwork and expertly-tooled woodcrafts. A story, highlighting Nuclear Division activity in the local culture, is found on pages 4 and 5 of this issue.



Other features:

- Biomed student takes award for second year page 2
- Question Box page 3
- Koch named technical assistant page 5
- Dr. Lincoln discusses compulsive gambling page 7
- ORGDP promotions page 8

Union Carbide sales hit new record

Union Carbide's third-quarter net income amounted to \$117.1 million, or \$1.90 a share, 32 percent higher than the \$88.6 million, or \$1.44 a share, earned in the same period a year ago. Sales for the quarter were \$1.63 billion, the highest for any quarter in the corporation's history, and were 10 percent above the \$1.48 billion reported in the third quarter of 1975.

For the first nine months, net income was \$336.1 million, or \$5.46 a share. This is 12 percent higher than net income of \$301.2 million, or \$4.92 a share, earned in the first nine months of 1975. Sales for the first nine months amounted to \$4.71 billion, compared with \$4.23 billion in the first nine months of 1975, an increase of 11 percent.

Third-quarter domestic sales gained 11 percent over the prior year. Above-average increases were noted in plastics, metals, carbon products, and battery products. Metals and carbons benefited substantially from the higher third-quarter operating rate in the steel industry as compared with a year ago. Physical volume in the United States and Puerto Rico was up seven percent over last year's third-

quarter level while selling prices were four percent higher.

International sales showed an eight percent increase. If adjusted for the deconsolidation of Union Carbide's Mexican affiliate, sales of which were included last year but not this year, the international gain becomes 13 percent.

Standard time returns October 31

Clocks roll back again come Sunday morning. At 2 a.m. Sunday, October 31, it will become 1 a.m. EST in the Oak Ridge area; and 1 a.m. CST a.m. in the Paducah environs.

Employees who are working the midnight shift in the Oak Ridge and Paducah Plants will report to work on Daylight Savings Time and clock out on Standard Time.

The Safety Departments have already urged us to have our headlights on during the dark hours on our way to work. Headlights will be imperative now!

Standard time will continue through the winter, until April, 1978, unless changed by the U.S. Congress.

\$96 million seen in toll enriching fees for quarter

More than \$96 million in toll enrichment sales were reported at the Oak Ridge Gaseous Diffusion Plant during the third quarter of 1976, bringing the total sales for the year to nearly \$217 million. This compares to \$143 million in sales reported during the same period for 1975.

During the third quarter of 1976, more than 802,000 pounds of enriched uranium were shipped for use in nuclear reactors in Japan, Sweden, Spain, Switzerland and West Germany, and in the states of Connecticut, Michigan, New Jersey, New York, Pennsylvania and Wisconsin.

Under the Toll Enrichment Program, privately licensed owners bring their uranium to a gaseous diffusion plant for enriching on a toll basis.

retirements



Manley

Fralix

Powell

Two Oak Ridge Gaseous Diffusion Plant employees retire at the end of October, marking more than 62 years of company service.

Burl W. Fralix, an electrical mechanic in Shop Services, joined

Union Carbide in 1945. He lives at Route 3, Dandridge.

Hal C. Manley, an assistant general supervisor in the Operations Division, also came with Union Carbide in 1945. He lives at 192 North Purdue Avenue, Oak Ridge.

Beecher D. Powell, Beta 2 Chemistry in Y-12, will retire after seven years with Union Carbide. He had previously worked in Barrier Operations at ORGDP, and lives at Route 4, Lakeland Drive, Lenoir City.

division death

Earl T. Henry, Y-12's Dimensional Inspection, died October 16 in a Knoxville hospital. A native of Knoxville, he came with Union Carbide in 1948, after working with the L & N and Southern Railroad Companies and the Patton Button Company.



Mr. Henry

The Henry home is at 5715 Scenic Ridge Road, Knoxville.

Survivors include his wife, Betty Constantine Henry; sons, Earl T. Jr., and Billy Henry; his mother, Emma Stair Henry; brothers, Arnold J., J.C., Robert E., W.D. and Fred Henry; and sisters, Pearl L. Henry, Dorothy Sawyer, Mary Tarver and Ruby Edwards.

Services were held at the McCarty Mortuary Chapel, with the Rev. Louis O. Ball officiating. Interment followed in Lynnhurst Cemetery.

nuclear division news

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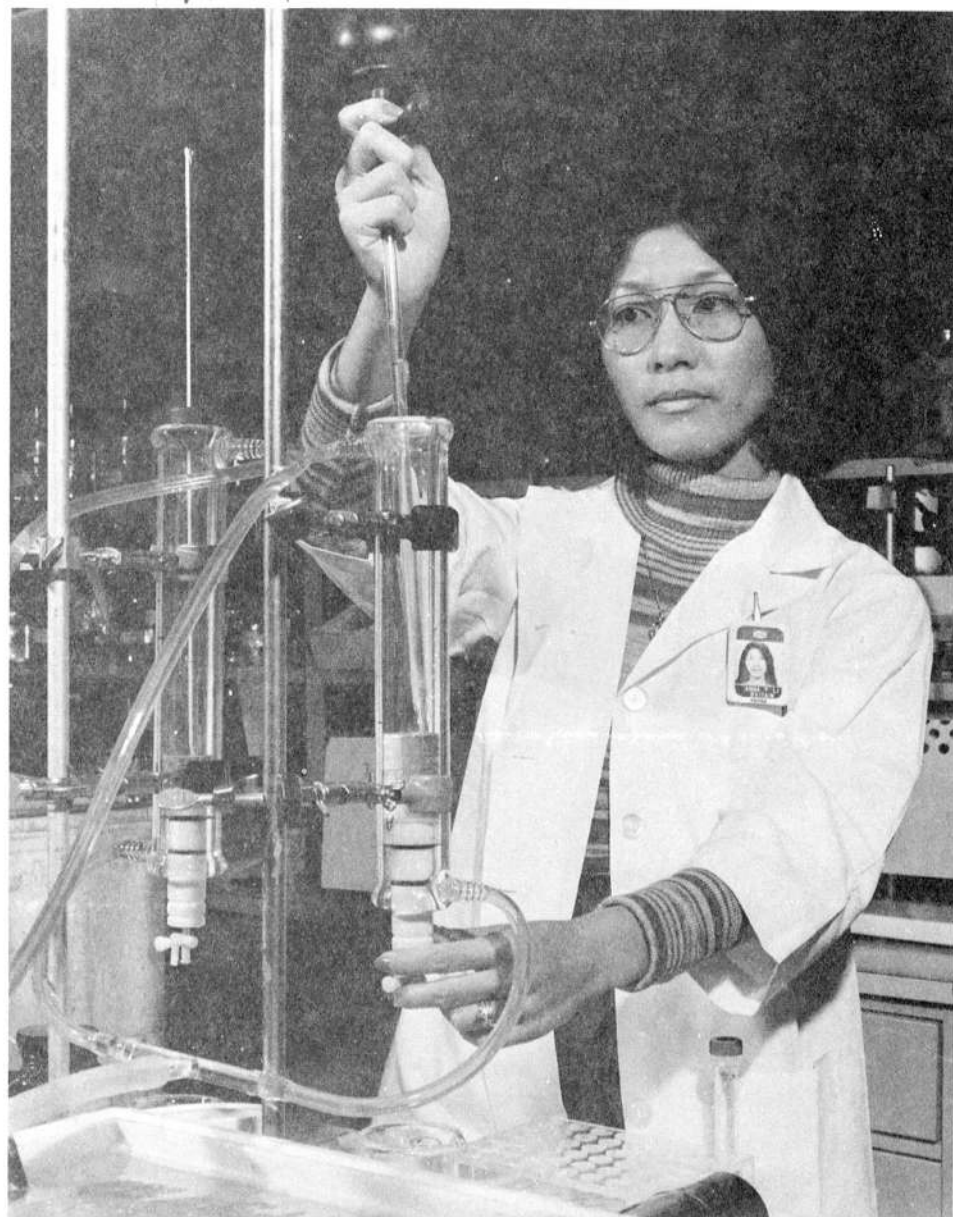
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NUCLEAR DIVISION

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SECOND PROFESSIONAL AWARD—Anna Tai Li, a graduate student assistant in ORNL Biology Division, has won a professional award for two consecutive years for her work in virology. She is working here with a hydroxylapatite column used in DNA separation.

Biomedical graduate student takes research award again

Sparks, Hendricks named to offices in associations

Cullie J. Sparks and Robert W. Hendricks, Metals and Ceramics Division, Oak Ridge National Laboratory, have been elected to offices in the American Crystallographic Association and the International Union of Crystallography.

Sparks is the 1976-77 Secretary-Treasurer of the Applied Crystallography Group and Hendricks was elected Vice Chairman of the Board of Directors of the Special Interest Group on Small-Angle Scattering, both in the American Crystallographic Association.

Hendricks has also been elected for a two-year term on the Commission on Crystallography and Apparatus of the International Union of Crystallography, and is General Chairman of the Fourth International Conference on Small-Angle Scattering of X-Rays and Neutrons, to be held October 3-7, 1977, in Gatlinburg. The Conference is co-sponsored by the International Union of Crystallography, ORNL, ERDA, USA National Committee for Crystallography, and the American Crystallographic Association.

Anna Tai Li, an Oak Ridge-University of Tennessee Biomedical School graduate student, has won for the second consecutive year the George Cameron Award of the Kentucky-Tennessee Branch of the American Society of Microbiology. The award is made annually for the outstanding presentation of research in virology and immunology.

Her work involves a molecular approach to the mechanisms by which the Kilham rat virus induces birth defects in rodents and is one of the few animal models available of virus-induced birth defects.

She works under the direction of George Lavelle and Raymond Tennant in the viral carcinogenesis group of ORNL's Biology Division.

Li is a British citizen from Hong Kong.

patents granted

To Walter G. Northcutt Jr. and William B. Snyder Jr., both of Y-12, for "Process for Fabricating Articles of Tungsten-Nickel-Iron Alloy."

To William B. Snyder Jr., Y-12, for "Ductile Tungsten-Nickel Alloy and Method for Making Same."

To David G. Thomas, ORNL, for "Stabilized Floating Platforms."



ANFLOW PROCESS HONORS—A process for the biological treatment of liquid wastes producing usable products such as methane gas was recognized by Industrial Research magazine as one of the 100 most significant new technical products of 1976. From left are Tim Burkholder, publisher; Herman Postma, Oak Ridge National Laboratory director; Stanley R. Smith, Norton Company, one of the co-developers of the process; Alicia Compere, William Griffith and John M. Googin, Nuclear Division researchers and co-developers of ANFLOW. Other developments in the Nuclear Division saw IR-100 honors go to ORNL researchers Edward Kobisk and Thomas Quinby and G. Wayne Clark. The awards were presented at the Museum of Science and Industry, Chicago.

question box

If you have questions on company policy, write the Editor, Nuclear Division News (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

Parking at portals

QUESTION: A relatively few have made Portal 5 at ORGDP a no-man's land. Is UCC going to enforce parking lot rules there or not?

ANSWER: Plans are underway to expand the Portal 5 parking lot in the immediate future. The lack of adequate parking spaces, due to increased personnel, has contributed to congestion, illegal parking and improper traffic flow in this lot. With the planned additional spaces many of these problems will be alleviated.

During the interim period until the lot expansion is complete, employees are urged to abide by the established traffic rules and regulations in this lot. It is management's intent to continue an effective traffic safety program in all of our parking lots. In order to do this, it is imperative that all employees drive safely and show courtesy to their co-workers until the present problem in this lot is solved.

Hire hard-of-hearing

QUESTION: Does Union Carbide hire people with some loss of hearing?

ANSWER: The Nuclear Division does hire people with some loss of hearing. In all cases the jobs such people are hired into are performed in working conditions where the hearing impairment does not jeopardize the employee's safety nor that of co-workers.

Exempt status

QUESTION: In a recent answer you stated that the overall advantages of being on the exempt payroll outweigh the probability of extra hours, weekend or holiday work, etc. What are some of these advantages?

ANSWER: Some of the advantages generally associated with being an exempt salaried employee include having a position in a higher salary structure, greater opportunity for advancement, more flexibility in carrying out job assignments, and professional or managerial status recognition.

Personnel folder information

QUESTION: I was recently informed by my supervisor that there was detrimental information in my personnel folder. He was not specific as to what that information was. Do I have a right to know what it is, since such information affects my future on the job?

ANSWER: You should first try to clear this matter up through your supervisor. However, if he/she is unable or unwilling to answer question, you may request the Employee Relations Manager at your installation to review your folder and tell you whether it contains detrimental information.

Reward for carpooling?

QUESTION: With traffic problems, the energy shortage, and dozens of other factors involved, getting to and

from work is becoming more of a problem day by day. Could Union Carbide provide preferential parking for car pooling employees to encourage this?

ANSWER: We certainly agree that car pooling should be encouraged and can provide relief in several problem areas.

However, all of our plant parking lots have historically been operated on a first-come, first-served basis; and the change you recommend would not only be opposed by many employees but would be difficult to implement on a practical and equitable basis. For example: Should a car pool of five receive better treatment than one with two or three members? If a car pool of three has one member on vacation and another sick, does the single driver retain the preferential parking? How does one enforce compliance with any preferential set of parking rules when each site has numerous parking lots?

We are beginning to see some positive feedback in Oak Ridge as a result of the recent Knoxville Commuter Pool survey. More employees are beginning to car pool and even van pool. Currently, there are nine vans at ORGDP, four at Y-12, and three at ORNL. If employees are interested in finding out more information about car or van pooling please contact one of the following: E. B. Wright ORGDP, J. M. Seivers (Y-12), or G. F. R. Johnson (ORNL).

Discrimination in security?

QUESTION: Under what authority do plant guards check contents of lunch boxes at the plant exits? This seems to me to be a degrading discriminating action toward hourly, male personnel since purses and briefcases are seldom, if ever, checked.

ANSWER: Although portal inspections of lunch boxes, briefcases, and packages may be of concern to a small number of employees, there is no intent to have this be degrading, and there is no reason why it should be so regarded. This search policy has been a condition of employment for many years. It is set forth on page 29 of the employee handbook entitled "You at Union Carbide," which reads as follows:

"The guards may ask to inspect any bundle or article you may be carrying when entering or leaving the plant. Please cooperate with them. Don't resent their action because they are acting under orders given to protect you and your fellow employees."

Briefcases, as well as lunch boxes, are inspected although we have not been inspecting women's handbags even though some of them may be quite large. This inconsistency will be reexamined.

Dodd named ASNT Fellow; Co-authors paper with Smith



Caius V. Dodd

The American Society for Non-destructive Testing and Materials has honored two Oak Ridge National Laboratory staff members. Caius V. Dodd and James H. Smith, Metals and Ceramics Division, will receive the ASNT achievement awards for their manuscript published in the official journal of the society. Dodd has also been named a Fellow in the society.

Dodd and Smith's paper, "Optimization of Eddy Current Measurements of Coil to Conductor Spacing," was selected as an outstanding contribution to the advancement of nondestructive testing.

A native of Memphis, Dodd joined Union Carbide in 1960, doing development work on nondestructive testing with emphasis on electromagnetic testing. He holds a Ph.D. from the University of Tennessee. He is secretary of the electrical and magnetic methods committee of the ASNT, on the editorial advisory committee of their International Journal, a



James H. Smith

member of Sigma Xi and the author of many publications in the field of eddy currents.

Dodd and his wife, the former Linda Kittrell, live on Williamsburg Drive, Concord. They have two children.

Smith, a native of Oneida, joined Union Carbide in 1962 as a physicist at the Y-12 Plant, later transferring to the Oak Ridge Gaseous Diffusion Plant, and then to the Metals and Ceramics Division at ORNL. He holds an M.S. in physics from UT and was an instructor at Eastern Kentucky University before coming to Y-12. He served in the U. S. Navy from 1951 until 1955.

Married to the former Helen Sharp, Smith lives at 610 Michigan Avenue, Oak Ridge. They have three children.

Smith is currently chairman of the local section of ASNT and is also a member of the American Welding Society and the Society for Experimental Stress Analysis.

safety scoreboard

Time worked without a lost-time accident through October 21:

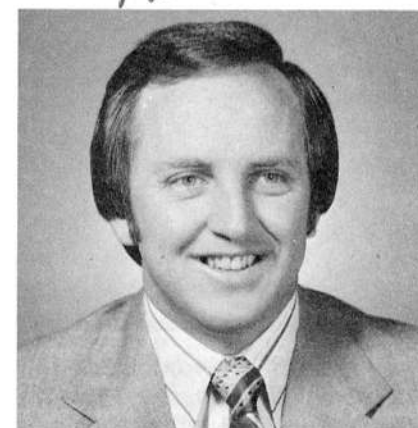
Paducah	23 Days	280,000 Man-Hours
ORGDP	13 Days	405,200 Man-Hours
Y-12 Plant	229 Days	6,736,000 Man-Hours
ORNL	35 Days	795,690 Man-Hours

Parrett named employment head

Phillip E. Parrett has joined the Oak Ridge Gaseous Diffusion Plant, Employee Relations Division, as head of the Employment Department.

He is a graduate of the University of Tennessee and was employed with the Minings and Metals Division of Union Carbide in Alloy, W. Va.; the Magnavox Corporation, Jefferson City; and most recently was employee relations manager with the Armstrong Rubber Company, Clinton.

Married to the former Bonnye Davis, Parrett has two children, Leslie and Drew. They live on Oklahoma Avenue, Oak Ridge.



Phillip E. Parrett

November 5, 6, 7

Foothills Craft Guild readies 'show and sell' in Oak Ridge

From chair-caning to needlepoint, from corn shuck dolls to leather-working, and from dulcimers to pottery . . . these and many more crafts will be featured at the Foothills Craft Guild show and sale at the Oak Ridge Civic Center next week. Scores of Nuclear Division employees are involved in the association of craftsmen who will display their ancient arts—many of which are peculiar to America, particularly the Appalachian region.

Next Friday, Saturday and Sunday will highlight the FCG's big Bicentennial display. Hours on Friday and Saturday will be from 10 a.m. to 10 p.m. and on Sunday from 1 to 6 p.m. It is the Guild's 10th anniversary and members are busily readying exhibits for further celebration of the Nation's 200th birthday.

Live entertainment

This year's show will include live entertainment such as the Tennessee String Dusters, the Clog Dusters and the Tennessee Mountain Cloggers. Some of the music will be provided outdoors if the weather permits. Many Nuclear Division employees and their families are involved in the entertainment end of the show, also.

The craftsmen and associate members participating in the event will offer wide selections of handcraft items—jewelry, pottery, metal sculpture, woodwork of all types, textile and fiber creations, candles, note papers, toys, ornaments, arrangements of dried natural materials and many other items.

Non-profit organization

The Guild has grown from a few members to almost 150 talented Tennesseans who have pooled their skills to share with others. Chartered as a non-profit, educational organization, the Guild uses proceeds from its sales to support community

activities such as the Oak Ridge Arts Council, high school craft shows and scholarships for studies in the arts and crafts field.

Forest L. and Mitzi Miller (he's in the Computer Sciences Division) are again co-chairing this year's event.

Anyone may become a member of the Guild if he or she is a resident of Tennessee and meets the requirements of quality workmanship and originality. Information may be obtained concerning membership by writing the Foothills Craft Guild, Box 99, Oak Ridge, 37830.

Nuclear Division participation in this year's show has increased considerably.

From the General Staff, Lowell McCauley, Office of Waste Isolation, will demonstrate chair caning. His wife, Nancy, will show her international award winning needlepoint design, painted tinware and basket purses.

ORGDP representation

From the Oak Ridge Gaseous Diffusion Plant, James Brewer will again present bolo ties. His wife, Jo, will show simulated plastic ornaments, giving a stained-glass effect. Robert Blackwell will have a demonstration of carved pipes. Olive (Mrs. James) Morrison presents her Christmas wreath and candle holders made from natural materials. George Kidd brings totems, wooden toys, cutting boards, crosses and also demonstrates chair caning. His wife, Judy, shares his demonstrations along with her own creches, mobiles and Danish embroidery. Sam Thompson will have ceramics and bird feeders; while his wife, Margaret, will have hand dipped candles, doll heads, sunbonnets and counted thread embroidery. Marti and Kurt Fleischer demonstrate their skills in macrame. Ron Senn will again show wooden games, jewelry and other forms of woodworking. His wife, Dot, will bring nut topiary trees and decorations from wood cutouts and other natural materials.

Representation from the Y-12 Plant will include Helen (Mrs. John) Ellison again showing her notepaper, designed from natural materials. Gwen (Mrs. Larry) McLaughlin designs notepaper, jewelry and macrame, also using natural fibers. Bill Dunlap will have examples of his woodworking. Judy (Mrs. David) Mason demonstrates her creative stitchery. Barbara (Mrs. Bill) Hackett will show examples of enameling, notepaper and fiber basketry. Peggy (Mrs. Fred) Heddleston displays slab ceramics, felt banners, Rosemaling, Hardanger embroidery and note cards. Bill Hackett shows Amerind folk crafts. Donald Carroll's exhibit will include pressed flowers; while Jane Bowman makes corn shuck dolls. Harold Fell will again show his firearms, dulcimers and powder horns; and Andy Zava will again display her leatherworking.

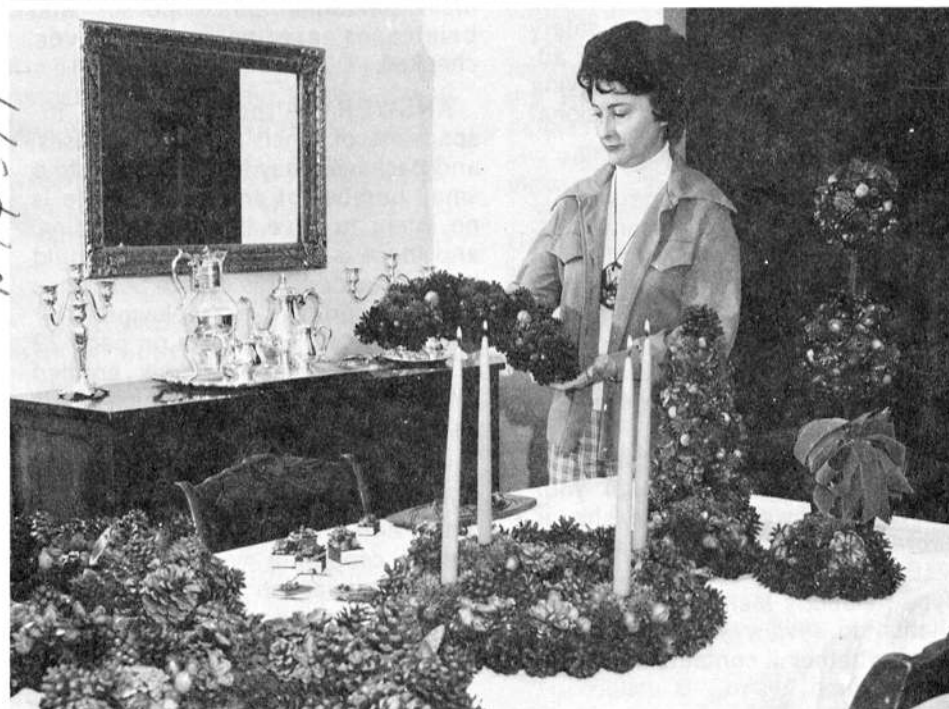
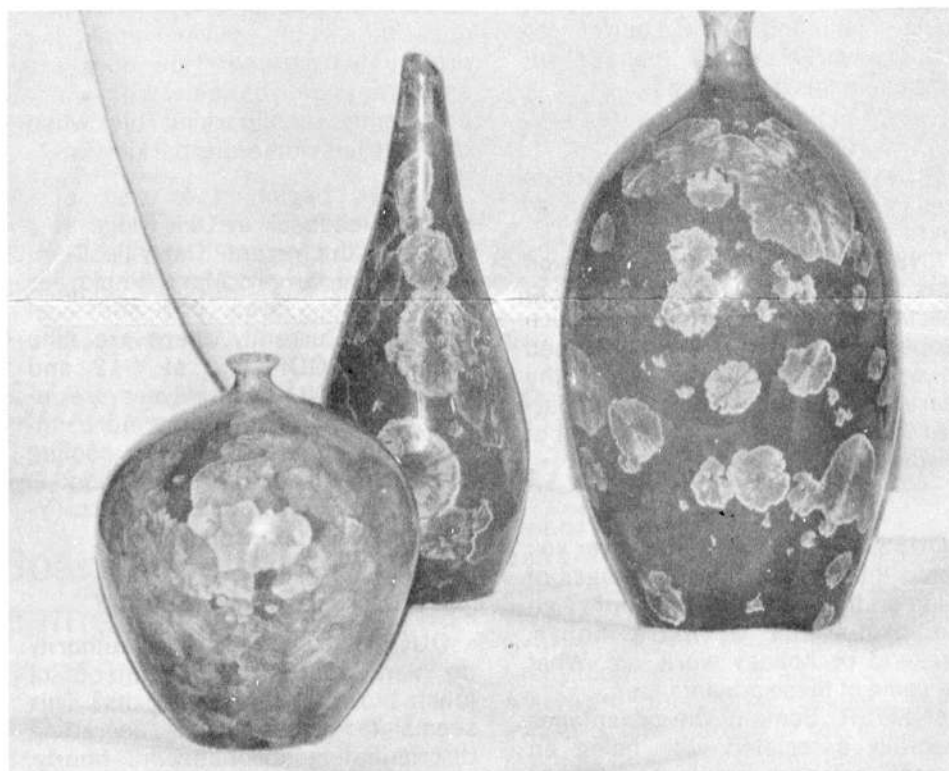
Varied crafts

Oak Ridge National Laboratory has a varied representation in the displays. Don Martin will show fiber basketry. His wife, Judy, will show soft fabric toys and basketry. Richard Busey demonstrates furniture making and wood turning. Jean (Mrs. Thomas

(Please see next page)



GLAZER SUPREME—Herman Weeren, above, applies pre-firing glaze to some of his wife's pottery. Firings up to 2300° are required on most glazes and Weeren "watches the pot" for Fran, making sure the delicate pieces of pottery ride through the fiery kilns. Some of their combined efforts are seen below.



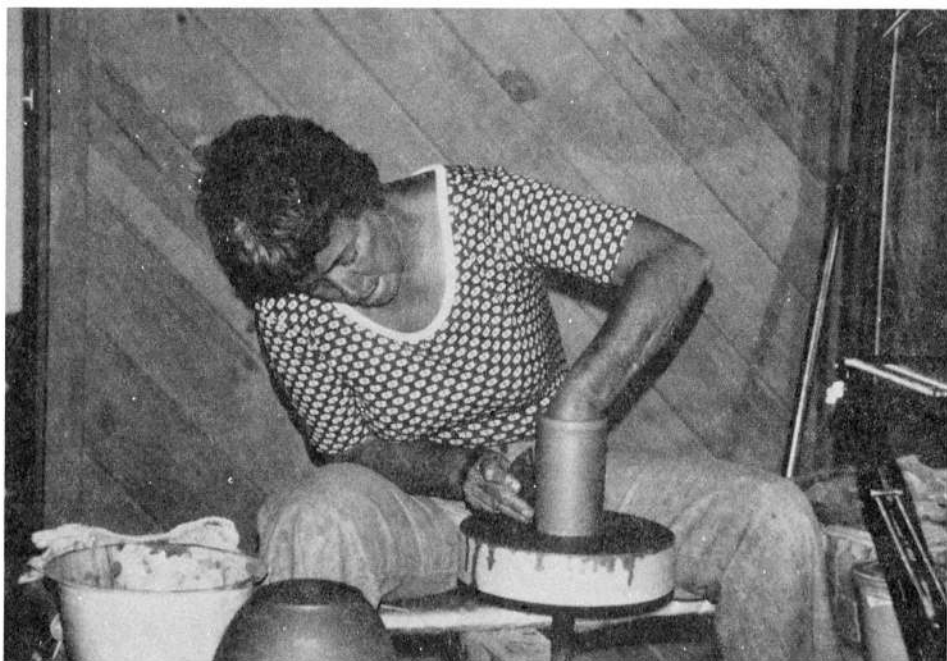
NATURAL MATERIAL DECORATIONS—Olive Morrison makes Christmas decorations and candle holders from natural materials and shows some of the beautiful work here. Her wreaths and centerpieces will be seen at the Civic Center in Oak Ridge next weekend.



LEATHERWORK—Andy Zava, Y-12 Development Division, is seen with one of the leather purses she has crafted.

274-94

274-94



POTTER'S WHEEL—Jean Cole masters the ancient art of turning with a potter's wheel. She will exhibit part of her crafts at the Foothills Craft Guild's big show and sell extravaganza set at the Oak Ridge Civic Center, November 5, 6 and 7.

Foot hills Craft Guild

(Continued from page 4)

E.) Cole brings wheel thrown ceramics. Roy Cooper will again present leatherworking. Fran and Herman Weeren will show high temperature crystalline glazes, miniature potpourri pots, handbuilt and wheel thrown pottery and newcomer William E. Dunlap brings a fascinating collection of miniature chests.

Weeren relates: "Fran makes pots in all shapes and descriptions and several years ago I got into glaze making as an adjunct to this activity. Clear glazes and matt glazes and blue glazes and green glazes and streaked glazes and textured glazes—I made them all. Along the way I became interested in special effect glazes—local reduction glazes and crystalline glazes—and I became fascinated by the techniques required and the effects that could be obtained."

Joint enterprise

He further describes the processes of kiln firing, and concludes, "The enterprise is a joint one—Fran makes the pots and I glaze and fire them, and I really can't say who has the more difficult job. Fran can point to her worn-down fingernails (porcelain is hard on the fingers) and I can point to the calluses on my knees from keeping close watch on the kiln temperature. It is most probably a draw. The joy of opening a kiln after a successful firing makes up for a lot of genuflections to a hot kiln, though."

Cabinet and chest maker Dunlap got the idea of miniature jewelry boxes while visiting England several years ago where he observed these items in curio shops, museums and a few in private homes.

Native woods used

In describing one of his silver chests he states it is "made from native walnut throughout and the use of select woods, solid brass hardware, careful attention to workmanship and finishing hopefully provides permanent display possibilities, accessibility to silver, decoration and future heritage value. Permanent inscription of customer, craftsman and date made may assist in the latter value. I endeavor to provide similar features also on jewelry chests, tables,

desks and other woodcraft items in an effort to approach the workmanship of the early master cabinetmakers as observed in our homes and museums.

"Woodcraft in the form of varied objects and the reproduction of earlier masters has been an absorbing hobby for more than 20 years. During most of this period most of my materials have been native Appalachian hardwoods—black walnut, wild cherry, butternut and maple."

If you like handicrafts at their best, where artisans have honed their talents to a fine art, then attend the Foothills Craft Guild sell and show next weekend at the Civic Center.

next issue ...

The next issue will be dated November 11. The deadline is November 3.



COMBINED TALENTS—Don and Judy Martin show part of their wares which will be exhibited at the display set next weekend in Oak Ridge. Don's fiber basketry and Judy's soft fabric toys will be highlights of the big show, sponsored by the Foothills Craft Guild.

Carl Koch named technical assistant; to assist in physical research efforts

6012-76

Carl C. Koch has been appointed technical assistant to Alex Zucker, associate director for physical sciences of the Oak Ridge National Laboratory.

Koch will assist in the overall management of ORNL's physical research program, which accounts for an annual expenditure of nearly \$33 million. He also will identify and develop new research areas important to ERDA.

He succeeds Robert E. Minturn, who has joined the Energy Division as manager of ERDA subcontracts for development and commercialization of the Annual Cycle Energy System.

Koch joined the Laboratory staff in 1965 as a member of the Metals and Ceramics Division. Since 1970 he has led a group studying the metallurgy of superconducting materials.

In addition to superconductivity, his scientific specialties are physical metallurgy and solid state physics, including work in phase transformations, alloy behavior, mechanical properties, and magnetic materials.

Koch holds degrees from Case Western Reserve University, Cleveland, Ohio, where he received the bachelor's degree in 1959, master's in 1961, and Ph.D. in metallurgy, in 1964.

In 1964, he was awarded a National Science Foundation postdoctoral fellowship and conducted research on the alloying behavior of rare-earth materials at the University of Birmingham, England. He was on special assignment to the Atomic Energy Research Establishment, Harwell, England, in 1971-72.

Koch is a member of Sigma Xi (Scientific Research Society of America), the American Institute of Physics, the American Institute for Mining, Metallurgical, and Petroleum Engineers, and Tau Beta Pi and Alpha Sigma Mu, honorary societies in engineering and metallurgy.



Carl C. Koch

From 1970 to 1973, he served on the publications committee for the AIME Metallurgical Transactions and is presently a member of AIME committees on alloy phases and non-ferrous metals. He has published more than 35 research papers and holds one patent.

He is a former member of the board of directors of the Oak Ridge Civic Music Association and a past president (1974-75) of the Oak Ridge Symphony Orchestra.

Koch, his wife, Evelyn, and two sons, Paul and Alex, live at 104 Westwind Drive, Oak Ridge.

wanted



ORGDP

RIDE or WILL JOIN CAR POOL from Emory Valley section, Oak Ridge, to Portal 2 or 4, straight day. Bob Roe, plant phone 3-9417, home phone Oak Ridge 483-0405.

RIDE from 715 West Vanderbilt Drive, Oak Ridge, to Portal 4, 8-4:30 shift. Jewell Beasley, plant phone 3-9581, home phone Oak Ridge 483-6243.

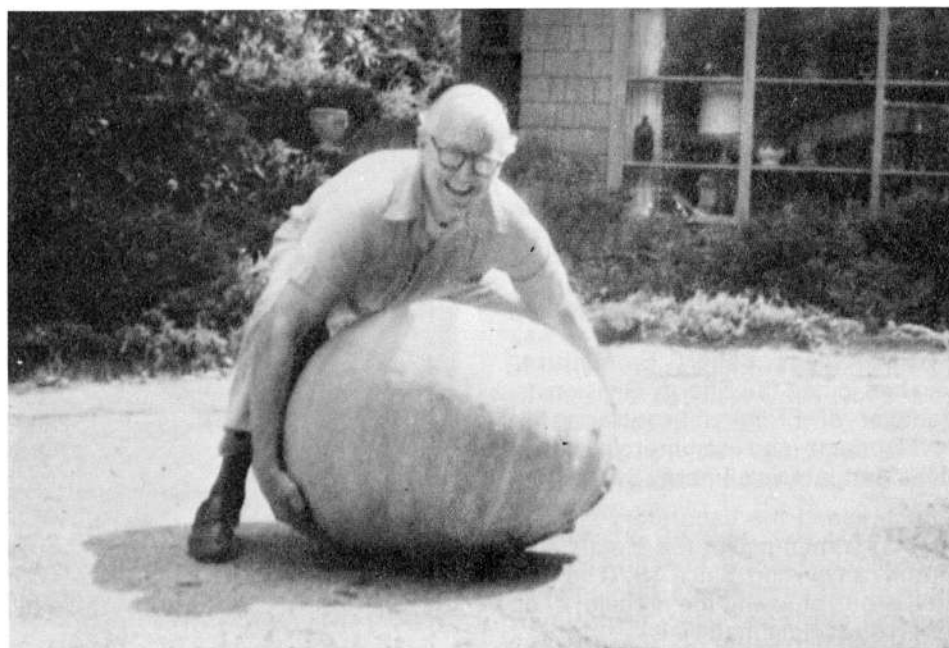
RIDE from Ball Road, West Knox County, to Portal 5, K-25, D Shift. Jack McKinney, plant phone 3-3476, home phone 690-1888.

ORNL

CAR POOL MEMBER, vicinity of Country Club Apartments and Landmark Subdivision off Middlebrook Pike, Knoxville, to East Portal, any shift. Jackie Sims, plant phone 3-1485; home phone 693-8829.

CAR POOL MEMBER, West Outer Drive - Pennsylvania - Hillside area, Oak Ridge, 8:15-5:00. Call Tom Burnett, plant phone 3-6939, home phone 483-1975; or Dick Strehlow, plant phone 3-1175, home phone 482-3240.

recreationotes



IN TIME FOR HALLOWEEN—Merle B. "Wimpy" Hilton, a Y-12 retiree enjoying retirement, shows off a 143 pound pumpkin he grew at his Sims Road, Knoxville, home. It measured 86 inches in circumference and Hilton says he is taking orders for pumpkin pies. That pumpkin can make a lot of pies or one whale of a jack-o-lantern!

Fall recreation calendar

Monday	Table Tennis League, Norwood Junior High School, 7:30 p.m. *Volleyball Leagues, Oak Ridge High School, 7:15-10:15 p.m. Bowling Leagues: Y-12 "C"—Tri-County Lanes, 5:45 p.m. ORNL "A"—Tri-County Lanes, 5:45 p.m. K-25 "D"—Tri-County Lanes, 7:30 p.m.
Tuesday	Pistol League, Oak Ridge Sportsmen's Association, 6:30 p.m. Camera Club, Cheyenne Hall (Oak Ridge) 7:30 p.m. (2nd Tuesday each month) *Volleyball Leagues, Oak Ridge High School, 7:15-10:15 p.m. Bowling Leagues: ORNL Ladies—Ark Lanes, Oak Ridge, 5:45 p.m. ORGDP Women—Ark Lanes, 5:45 p.m. ORGDP Men—Tri-County Lanes, 8 p.m.
Wednesday	*Volleyball Leagues, Oak Ridge High School, 7:15-10:15 p.m. Bowling Leagues: Y-12 Mixed—Tri-County Lanes, 5:45 p.m. ORNL "C"—Tri-County Lanes, 5:45 p.m. ORGDP Men—Tri-County Lanes, 5:45 p.m.
Thursday	Badminton (informal), Highland View School (Oak Ridge) 8 p.m. Table Tennis (informal), Highland View School, 8 p.m. *Volleyball Leagues, Oak Ridge High School, 7:15-10:15 p.m. Bowling League: Y-12 Classic—Tri-County Lanes, 5:45 p.m.
Friday	Family Mixed Bowling League, Ark Lanes, 5:45 p.m.
Sunday	Badminton (informal) Highland View School, 6:30 p.m. Table Tennis (informal) Highland View School, 6:30 p.m.

*Volleyball season will begin on November 1, and will be played on nights when the high school is not scheduled to play at home.

(NOTE: The Recreation Office has travel and vacation literature for employees, as well as membership and discount coupons for Disney World, Six Flags Over Georgia and Opryland. For more information, call 3-5833.)

anniversaries

PADUCAH

25 YEARS

Thomas H. Ausenbaugh, Jesse M. Knott, Arthur G. Terry, Marshall H. Hunt, Fred R. Golightly, John F. Floyd, James H. Armstrong, and Eugene R. Charvat.

Arthur T. Freeman, James W. Jewell, James S. Gordon, Bill Blair Jr., Robert R. Fuller, Clifton N. Estes, James B. Sims, Jack C. Gillespie, James S. Churchill Jr., Carl E. Jones, Rupert B. Nanny and Alvin E. Etheridge.

20 YEARS

Wilson E. Kinsey and Charles F. Johnston.

ORNL

30 YEARS

Jack P. Cagle, Plant and Equipment Division; Thomas D. Owings Jr., Metals and Ceramics Division; Harry K. Walker, Energy Division; Vernon T. Houchin, Plant and Equipment Division.

25 YEARS

Edgar L. Compere, Thomas R. Raines, Paul W. Pair, Joseph M. Dailey, Edward H. Kobisk, Andy L. Johnson, George S. Hurst, Charles W. Greene, Brena K. Stevens, James C. Smith, Bennie McNabb Jr.

20 YEARS

Sigmund W. Mosko, Thomas F. Rayburn, John E. Wolfe, Charlie O. Kirby, Clarence W. Fox, Milton H. Lloyd, Tommy J. Henson, William J. Schill, James R. Plunkett, David C. Watkin.

GENERAL STAFF

30 YEARS

William E. Schimmel, Auditing Division.

25 YEARS

Otto W. Hermann.

20 YEARS

Marjorie M. Stephens.

Y-12 PLANT

30 YEARS

John P. Jones, Process Maintenance; and Eva M. Lowe, Chemical Services.

25 YEARS

Everette N. Rogers, Clarence V. Taylor, Perry W. Bullard, Aaron C. Rutenberg, Joyce A. Williamson, Lennie C. Jeffreys, Cecil M. Lane, James W. Doane, Darrell E. Doane, William J. Sims, Monroe C. Davis, Sewell Howard, Eugene E. Mauney, Hurshel B. Lefler, Jim H. Bohanon, Terry V. Williams, Anne I. Fitzgerald, C. W. Cooper, Walter D. Humphrey and Jerome Taylor.

20 YEARS

Arnold K. Craft, Howell M. Abele, Barbara A. Luttrell and Wayne D. Howard.

ORGDP

30 YEARS

George W. Eckerd, Engineering Division; Bernard M. Taylor, Cascade Maintenance, and Lester H. Riggs, Administrative Services.

25 YEARS

James L. Hengstler and Richard H. Stevens.

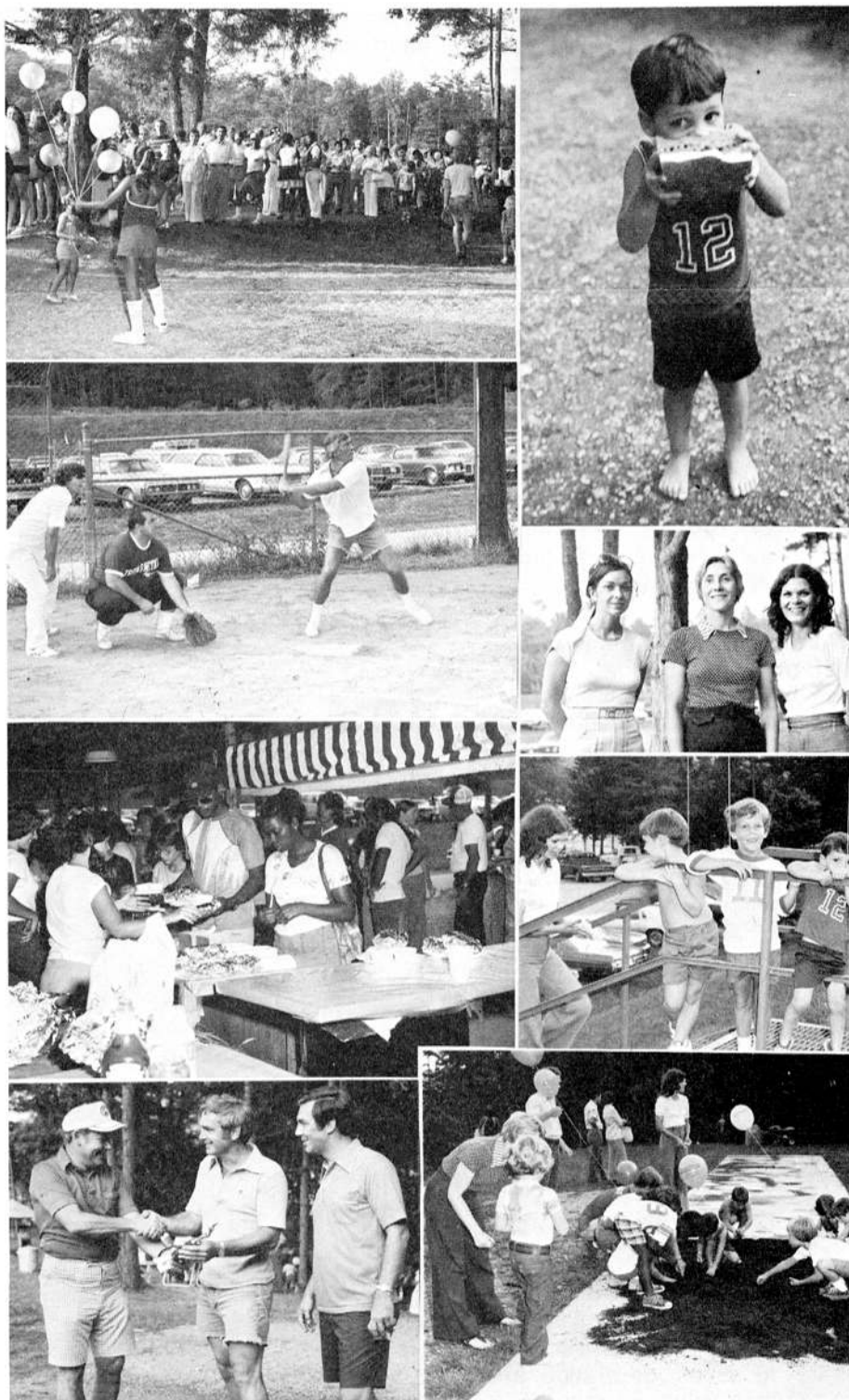
20 YEARS

Billy E. Ashburn and Joe Cyrus Dedrick.

Cold weather energy-saver

When buying a new furnace, select one that incorporates an automatic flue gas damper, a device which reduces loss of heat when the furnace is not in operation.

Have your furnace serviced once a year, preferably each fall. Adjustment could mean a saving of 10 percent in family fuel consumption.



JOINT PICNIC—The Employee Relations and the Finance, Materials and Services divisions at the Oak Ridge Gaseous Diffusion Plant staged their annual joint picnic recently at the Clark Center Recreation Park. A softball duel, children's games, and, of course, picnic food, dominated the summer fun.



Compulsive gambling

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

Compulsive or pathological gambling is as much a disease as alcoholism or drug addiction. It is not as physically destructive as alcoholism and it does not lead to criminal behavior as frequently as drug addiction. Nevertheless, it can be equally socially destructive. It frequently leads to a broken marriage, loss of a job, failure to support oneself, and crimes—such as embezzlement or forgery—to pay gambling debts. Suicide is sometimes the concluding episode in a gradual decline marked by periods of reasonable control, followed by disastrous gambling binges.

The compulsive gambler has an inner psychological need which is temporarily met during gambling. It has been described as a psychological addiction. It is similar to compulsive eating. Many obese people use food to relax inner tensions. After restraining themselves for several weeks, they will have a "bad day" and come home and "hit the refrigerator" like an alcoholic hits his bottle. In a similar way, gambling is, for some, an extremely effective antidepressant and anti-anxiety activity.

Games meet needs

Defining compulsive gambling is difficult and, like most diseases, it ranges from a mild intermittent symptom to a severe continuous and debilitating illness. Typically, victims habitually take chances or gamble at every opportunity they can. The games that best meet their needs, i.e., give them the most pleasure, seem to dominate their lives. They are always full of optimism and never learn from defeat and never stop when they are winning. Although they may be cautious when they begin, they eventually risk too large sums which they inevitably lose. In spite of losing, there is a pleasurable-painful tension or thrill during the time between betting and the outcome of the game.

Gambling, like drinking, is an occasional indulgence of a great many people. Several years ago a staff paper by the National Gambling Commission estimated that over 50 million American citizens "succumb to the passion" of gambling each year. More recently Daniel Suits and Maureen Kallick of the Institute for Social Research at the University of Michigan estimated that 61 percent, or 88 million adults, gambled during the year 1974.

Of those who gamble primarily on games of chance, only about 1 out of 5,000 will end up a financial winner in the long run. Based on a large national questionnaire, the University

of Michigan group estimated that slightly less than 1 percent were probably compulsive gamblers. That still is a lot of people. Almost every small town has one or two and large cities have many.

A means of escape

Why gamble? Patrick Young, writing in the *National Observer* March 23, 1974, said, "The ingredient in alcoholism is alcohol and the ingredient in drug addiction is drugs. But the ingredient in gambling is the excitement." There is the combination of a thrill over winning and an anxiety over losing. It provides an escape from reality, an opportunity to indulge in a fantasy of power, success and wish fulfillment. Even though failure brings reality crashing back, during the gamble there is an escape from an often boring, frustrating and disappointing life.

Psychologists and psychiatrists have had a "field day" developing theories on why people gamble excessively. Freud felt that compulsive male gamblers were unconsciously aggressive towards their fathers because they competed with them for their mothers' love (the Oedipus complex). This unconscious conflict led to anxiety and guilt which could only be relieved by self punishment. Nancy Hendee, of the National Gambling Commission, summarized it well. "The compulsive gambler prefers the 'pleasure' of defeat and humiliation time and time again because it counteracts the torture of his unconscious conscience." This neurotic punishment helps him keep his psychological "books" in balance.

Relieves psychic pain

Dr. Robert L. Custer, Chief of Psychiatric Services for the Veterans Administration, says that compulsive gamblers consciously want to win money and unconsciously want to win affection and love. They use gambling as a relief of psychic pain resulting from some uncomfortable situation they do not know how to cope with. It may be a domineering wife, an unreasonably demanding supervisor, an unpleasant job or just a general feeling of being inadequate.

Learning theorists say gambling is the ideal learning situation for holding a victim. If the gambler always loses, and maybe if he always wins, he would eventually lose interest. The gambler, however, never completely wins or totally loses. He wins often enough to keep his hope up. It is a conflict between the hope of winning and the fear of losing that keeps his interest high.

Treatment of compulsive gambling can be extremely difficult. It is much



"If we could use him, it would put us over the top."

Bloodmobile sets visit to Oak Ridge, November 3,4

The American Red Cross Bloodmobile will visit the Oak Ridge area again next month. Blood may be donated for six hours on each day's visit: from 3 until 9 p.m., Wednesday, November 3; and from noon until 6 p.m., Thursday, November 4. The site will be the National Guard Armory on the Turnpike.

Since approximately 45 percent of the population cannot give blood (because they are either past 65, or under 18) it is up to the 55 per cent remaining to supply blood needed for everyone. Present estimates, however, are that only one percent of the nation's residents actually give blood to be used by the people who need it.

Seventeen-year-olds may give blood now (with written parental permission) and all healthy 18 to 65-year-olds may give. It only takes about an hour (actual blood-giving takes about 10 minutes) for your blood pressure to be measured, your

medical history recorded and your blood tested and typed.

Advances in medical science have greatly increased the need for whole blood. Research also is involved in blood components. (One single unit of blood sometimes is used by four different patients requiring blood.) Each year one of 80 people in this country require blood... and since one out of every hundred is presently giving, you can readily see why there is a shortage of blood.

Blood is what sustains life... and there is no substitute for this vital fluid. To require it is to need a second chance at life, and having blood when it is needed is the whole secret. Organ transplants, as well as the advances being made in heart surgery, require more and more blood. So who is to give? You and me, and people like us, who are strong and healthy enough to carry the burden for those who are not.

And what is our benefit? The knowledge that we have helped someone else is payment enough. But there is a greater reward... the knowledge that blood will be available if we, ourselves, ever require it. Isn't that compensation enough?

See you next Wednesday and Thursday at the Bloodmobile!

ORNL Credit Union names nominating group

The ORNL Credit Union is taking nominations for officers to serve on a voluntary basis for 1977.

Nominations may be made to the following: Karl W. West, extension 3-1285; Anita S. Barker, 3-1496; T. E. Lowery, 3-6300; or James A. Slice Jr., 3-1962.

The deadline for nominations is December 1.

like alcoholism. The fear of trying to do without the relief of tension or psychic pain which gambling or alcohol provides, is so overwhelming that voluntary treatment is seldom possible. Somehow the families, supervisors, friends and physicians have to combine forces to get the victim into a hospital where he can experience the difficult withdrawal process in a sheltered environment. He then may require months or years of outpatient psychiatric care. Gamblers Anonymous, like Alcoholics Anonymous, clubs have also helped some people.

Like alcoholism, compulsive gambling requires early detection and treatment or the prospects for success are poor. Cure is not possible. Control is the best that one can hope for.

Promoted at Oak Ridge Gaseous Diffusion Plant



Caldwell

Cross

Donahoe

Dunaway

Ford

Hall

Williford

Seven promotions have been announced at the Oak Ridge Gaseous Diffusion Plant. Charles L. Caldwell has been named buildings and grounds supervisor in the Fabrication and Maintenance Division; Dan A. Cross has been promoted to an engineer I in Fabrication and Maintenance; Virginia T. Donahoe is a buildings and grounds supervisor in Fabrication and Maintenance; Orville H. Dunaway is a supervisor in Operations; C. Lee Ford Jr. is a new procurement coordinator in Finances, Materials and Services; William E. Hall is a new supervisor in Operations; and Joseph G. Williford is a maintenance supervisor in Fabrication and Maintenance.

Caldwell, a native of Maryville, attended Knoxville Business College, and worked with the R. C. Caldwell

Fence Erection Company and the Ford Motor Company before joining Union Carbide in 1975.

He and his wife, the former Beverly Jo Stephens, live at 2 Wilson Road in the Eagleton Village, Maryville. They have a son, Christopher Toby.

Cross, who was born in Bakersfield, Calif., has been with Union Carbide since February of this year. He has a BA degree from the University of California, and worked with the Boeing Company and in housing manufacturing before coming to Oak Ridge.

He and his wife, the former Ramona Jean Harstman, live at 824 Nelson Drive, Kingston. They have two children, Clifford and Michele.

Donahoe, a native of Johnson City, has been with Union Carbide more than 32 years. Prior to joining us, she

worked with Stone and Webster in Oak Ridge.

She has a son, Robert E. Donahoe, and lives at 220 West Vanderbilt Drive, Oak Ridge.

Dunaway was born in Knoxville and attended Knoxville Business College and the University of Tennessee. He joined ORGDP four years ago, after working for the John Housley Cigar Division and as an insurance salesman.

He and his wife, Martha Ann, live at Route 15, Boss Road, Knoxville. They have two children, Michael and Douglas.

Ford, also a native of Knoxville, has a BS degree from UT, and joined Union Carbide in 1975. He served in the infantry in Vietnam and worked for Almart before joining Union Carbide.

Mrs. Ford is the former Sarah Richards and they live at 124 Brampton Road, Concord.

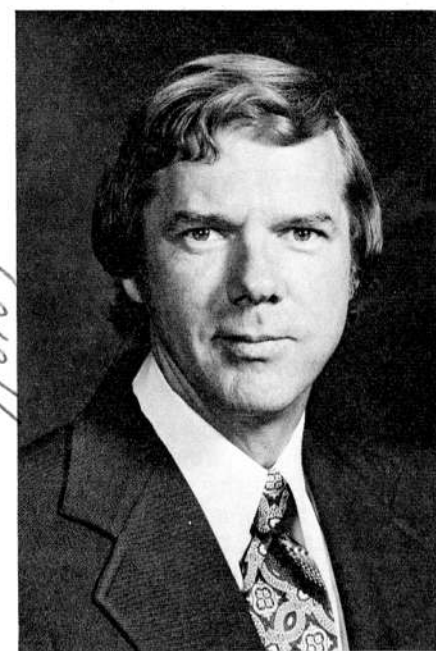
Hall, a native of Concord, has been with Union Carbide 23 years, working as a chief mail clerk and a records clerk and analyst. He was employed by C. M. McClung and Company before coming to ORGDP.

He and his wife, Ruby, live at 11000 Thornton Drive, Concord. They have three children, Daryl and Dean, and Diane Robards.

Williford, a native of Gainesboro, attended Tennessee Technological University. He worked at the G & B Electric Company and served in the U. S. Navy before joining Carbide three years ago.

He and his wife, Annette, live at Route 3, Circle Drive, Oliver Springs. They have two children, Joanne and Jennifer.

Lambdin earns certification



Jerry Lambdin

Jerry Lambdin, Employee Relations Division at the Y-12 Plant, has been certified as an industrial hygiene technician by the American Board of Industrial Hygiene.

Formerly with the Health Physics Division at ORNL, Lambdin has attended Tennessee Technological University and the University of Tennessee. He is a native of Andersonville.

Lambdin lives at Route 1, Clinton. He has a son, Jamie.

wanted



Y-12 PLANT

RIDERS from Pine Ridge Road, Harriman, to Central Portal, 8:15 a.m.-4:45 p.m. shift. Charles Loggin, plant phone 3-7272, home phone Harriman 882-1801.

JOIN CAR POOL from West Knoxville, Hobbs Road, to East Portal, straight day. A.C. "Tony" Griffin, plant phone 3-5968, home phone Knoxville 966-6405.



CONGRESSIONAL VISIT—Melinda Ann Hutcherson recently attended a Congressional Seminar in Washington. Sponsored by the Paducah Plant, she met Congressman Carroll Hubbard, Mayfield, Ky., at the Nation's Capitol after visiting in his office discussing current legislation. The seminar, sponsored by Union Carbide, gives students an opportunity to talk and listen to people to see how our government operates.



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NUCLEAR DIVISION

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